# ACTIVE DEBUGGING ENVIRONMENT FOR APPLICATIONS CONTAINING
# COMPILED AND INTERPRETED PROGRAMMING LANGUAGE CODE

## Abstract

An active debugging environment for debugging a virtual application that

5   contains program language code from multiple compiled and/or interpreted

programming languages. The active debugging environment is language neutral

and host neutral, where the host is a standard content centric script host with

language engines for each of the multiple compiled and/or interpreted

programming languages represented in the virtual application. The active

10   debugging environment user interface can be of any debug tool interface design.

The language neutral and host neutral active debugging environment is

facilitated by a process debug manager that catalogs and manages application

specific components, and a machine debug manager that catalogs and manages

the various applications that comprise a virtual application being run by the script

15   host. The process debug manager and the machine debug manager act as an

interface between the language engine specific programming language details

and the debug user interface.